







GOVERNOR Jeremiah W. "Jay" Nixon

#### CONSERVATION COMMISSION

Don C. Bedell James T. Blair, IV Marilynn J. Bradford David W. Murphy

DIRECTOR Robert L. Ziehmer

#### XPLOR STAFF

Brett Dufur
Les Fortenberry
Karen Hudson
Regina Knauer
Angie Daly Morfeld
Noppadol Paothong
Marci Porter
Mark Raithel
Laura Scheuler
Matt Seek
David Stonner
Nichole LeClair Terrill
Stephanie Thurber
Cliff White

Xplor (ISSN 2151-8351) is published bimonthly. It is a publication of the Missouri Department of Conservation, 2901 West Truman Boulevard, Jefferson City, M0 (Mailing address: P0 Box 180, Jefferson City, M0 65102.) Subscription free to Missouri residents (one per household); out of state \$5 per year; out of country \$8 per year. Please allow 6–8 weeks for first issue. Notification of address change must include both old and new address (send mailing label with the subscriber number on it) with 60-day notice. Preferred periodical postage paid at Jefferson City, Missouri, and at additional entry offices. Postmaster: Send correspondence to Xplor Circulation, P0 Box 180, Jefferson City, M0 65102-0180. Phone: 573-751-4115, ext. 3856 or 3249.

Copyright © 2016 by the Conservation Commission of the State of Missouri. Vol. 7, No. 2. March/April 2016 issue printed by RR Donnelley in February 2016 in Liberty, Missouri. Printed in the USA

Send editorial comments to: Mailing address: Xplor Magazine, PO Box 180, Jefferson City, MO 65102-0180; Email: Xplor@mdc.mo.gov. Please note: Xplor does not accept unsolicited article queries, manuscripts, photographs, or artwork. Any unsolicited material sent will not be returned.

Equal opportunity to participate in and benefit from programs of the Missouri Department of Conservation is available to all individuals without regard to their race, color, national origin, sex, age, or disability. Questions should be directed to the Department of Conservation, PO Box 180, Jefferson City, MO 65102, 573-751-4115 (voice) or 800-735-2966 (TTY), or to the U.S. Fish and Wildlife Service Division of Federal Assistance, 4401 N. Fairfax Drive, Mail Stop: MBSP-4020, Arlington, VA 22203.



We recycle. You can, too! Share Xplor with friends.

## **ON THE COVER**

Ruby-Throated Hummingbird by Noppadol Paothong



Do your part to help butterflies thrive at CONSERVATION KEEPERS: MILKWEED AND MONARCHS. Northeast Regional Office in Kirksville. March 19, 1–2 p.m. Call 660-785-2420 for information.

Arrows fly. Bull's-eye! Shoot a bow at BESINNING ARCHERY. Lake City Range in Buckner. March 5, 9–11:30 a.m. Ages 10–17. Register at 816-249-3194.



Learn how to hunt gobblers at BEGIMMER'S WILD TURKEY HUNTING CLINIC.

Jay Henges Shooting Range in High Ridge.

March 19, 9 a.m.—4 p.m.

Youth under age 16 must be accompanied by an adult. Register at 636-938-9548.

Have fun and improve your aim at **YOUTH AIR RIFLE**. August A. Busch Shooting Range and Outdoor Education Center. April 23, 9–11 a.m. Ages 9–15. Youth must be accompanied by an adult. Register at 636-441-4554.



to grow up amphibian at AMAZING AMPHIBIANS.
Cape Girardeau Conservation
Nature Center. April 15, 4–7 p.m
Call 573-290-5218
for information.

With winter almost gone and spring right around the corner, there's plenty to discover outside in March and April. Watch for these natural events around the following dates.

# MARCH IF

Purple martins arrive this week.

# MARCH 22

Bats are leaving hibernation caves.

# MARCH 25

Pileated woodpeckers drum to establish territories.

# APRIL S

White pelicans migrate through Missouri.

## APRIL

It's time to look for morel mushrooms.

### APRILM

Ruby-throated hummingbirds arrive.

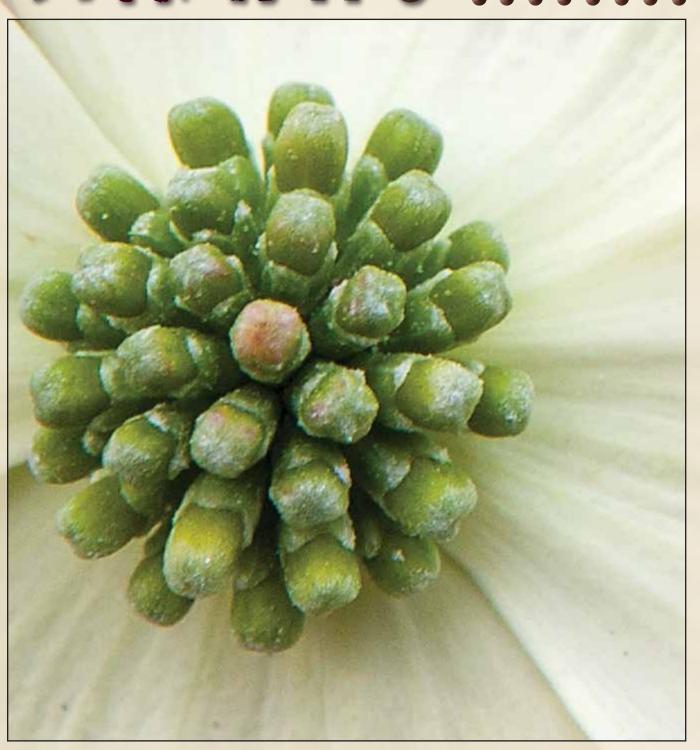
## APRIL 23

Turtles are crossing roads. Watch out!



# DON'T KNOW?

Jump to Page 20 to find out.



- 1 I'm always one of the first to celebrate spring.
- 2 I've got the wrong kind of bark to be your best friend. 4 I like to live in the forest, but I'm branching out.
- 3 I'm the Show-Me State's official state \_\_\_\_.





# 

BURGET Dufur | Illustrations by Mark Raithel

pril Fools is right around the corner, but that's no reason to get fooled. Let's shed light on some long-lived nature myths. Sometimes an answer can be simple on the surface but more complicated the deeper we dig. Maybe that's how these myths developed. But enough foolin' around, let's get straight to the facts!

# MYTH: MISSOURI'S ARMADILLOS

MYTH: MISSOURI'S ARMADILLOS CAN ROLL UP INTO A BALL.

# MYTH BUSTED.

This myth has a tricky answer.

Missouri's nine-banded armadillos

cannot roll up into a ball. However, other
kinds of armadillos in other countries can.

Those out-of-country armadillos have the
unusual ability to roll up into a ball, using
their hardened plates to protect themselves
like a bowling ball. Missouri's armadillos have
other cool tricks, though. They can jump high
when frightened and can run surprisingly fast.





### MYTH BUSTED.

Are groundhogs our best furry forecasters? No. Supposedly, if they see their shadows on Groundhog Day in early February, we are in for six more weeks of winter. Groundhogs, also called woodchucks and whistle pigs, are among our longest hibernators, settling down as early as October and remaining in their burrows as late as April. No matter what a groundhog may appear to tell us on Groundhog Day, it's a safe bet the groggy weather watcher just wants to go back to sleep.

# MYTH: A FROZEN FROG IS A DEAD FROG.

### MYTH BUSTED.

Chuck's Weather Report

Brrr! Some frogs, such as Cope's gray treefrogs and spring peepers, can freeze and survive. But a frog doesn't just turn into a block of ice. The frog's liver releases chemicals that keep cells from drying out and shrinking. Then the frog's heart stops, and the frog appears to be dead. Scientists aren't sure what tells the heart to start beating again once the frog thaws out. A frog can survive all winter like

if it gets too cold for too long, it'll croak.



Birds can smell, although even the experts can't agree how well they smell, despite more than a 100 years of research and debate. Since food odors quickly blow away, most birds probably don't have well-developed noses, even though they do have the glands to process smells. However, scientists have studied the turkey vulture's ability to smell dead meat (wow, sounds like fun), and they say that without a doubt vultures can smell great, although what they smell probably smells awful!

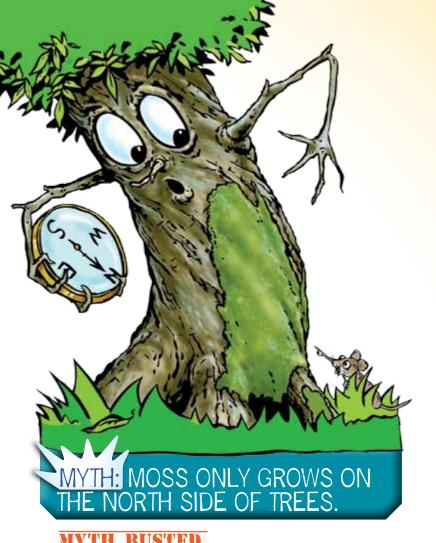


# MYTH: A WORM CUT IN TWO BECOMES TWO WORMS.

### MYTH BUSTED.

Even though the outside of an earthworm looks like one sleek little wriggling noodle, there's a lot going on inside. There are five beating hearts, and the worm's organs are carefully laid out. If you cut a worm in two, really what you've done (if you're lucky) is just cut its tail off, which would eventually grow back. The tail half would die. If old stubby's

main organs are still all together in one half, that half has a fighting chance.



### MYTH BUSTED.

Lost? Don't follow the moss. Generally, the north side of a tree gets less sunlight and tends to be cooler and damp — the perfect place for moss to grow. But don't expect moss to help you find True North. Lots of things can create shady conditions that moss likes, so don't ditch your compass just yet!

# HOLDING A TOAD GIVES YOU WARTS.

### MYTH BUSTED.

Holding a toad doesn't give you warts. Warts on people are actually caused by a human virus. A toad's bumpy skin helps camouflage it. The wartlike bumps behind a toad's ears can be mildly dangerous. The bumps release a nasty substance that irritates the mouths of some predators and sometimes human skin.



by Matt Seek

From burly bears to tiny birds, Missouri's critters come in a variety of shapes and sizes.

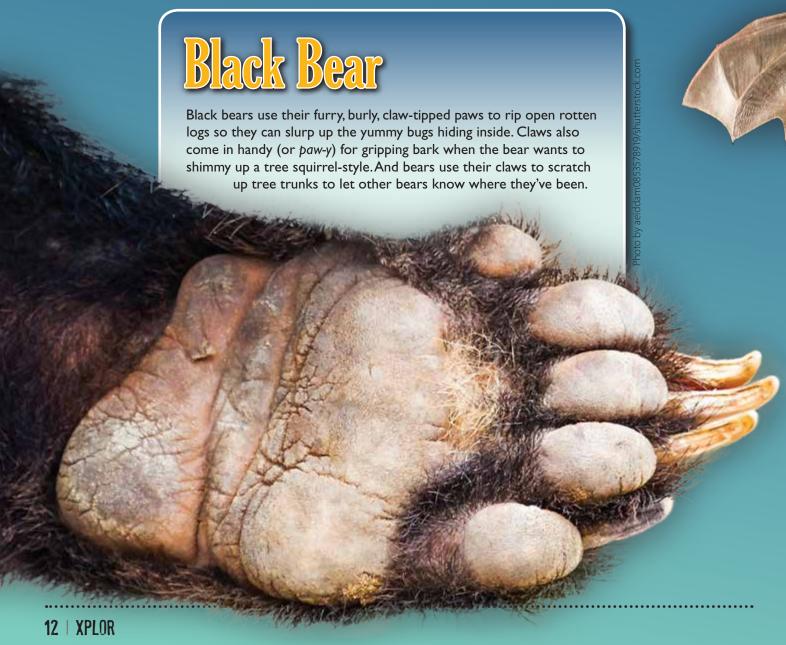
The animals here are shown life size.

How do you stack up?

Hardly bigger than a soda can, these itty-bitty owls are Missouri's smallest bird of prey. They visit the Show-Me State in winter to feast on forest mice and voles. Although a deer mouse is barely a snack for a bigger owl, it makes two meals for a tiny saw-whet.







# Flat-Headed Snake

At first glance, you might mistake this snake for an earthworm. The Show-Me State's smallest serpent rarely grows more than 8 inches long. It lives throughout the southern half of Missouri, hiding in burrows on wooded, south-facing hillsides.



# Little Brown Bat

When hunting, a bat bags bugs in its wings then passes the morsels to its mouth for an in-flight snack. The wings are made of skin stretched between the bones of a bat's arms and its freakylong fingers. Although this little brown bat is much smaller than you, its 3-inch-long digits are about as long as your fingers.

# Missouri Tarantula

They're big. They're hairy. But, are they really scary? Missouri's largest spider looks ferocious, but it's actually quite shy and spends most of its time hiding in burrows. When threatened, tarantulas sling arrow-sharp hairs off their bellies at attackers. The barbed bristles pepper a predator's skin and eyes, giving the spider time to scurry away.

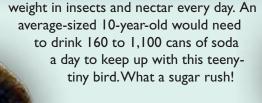




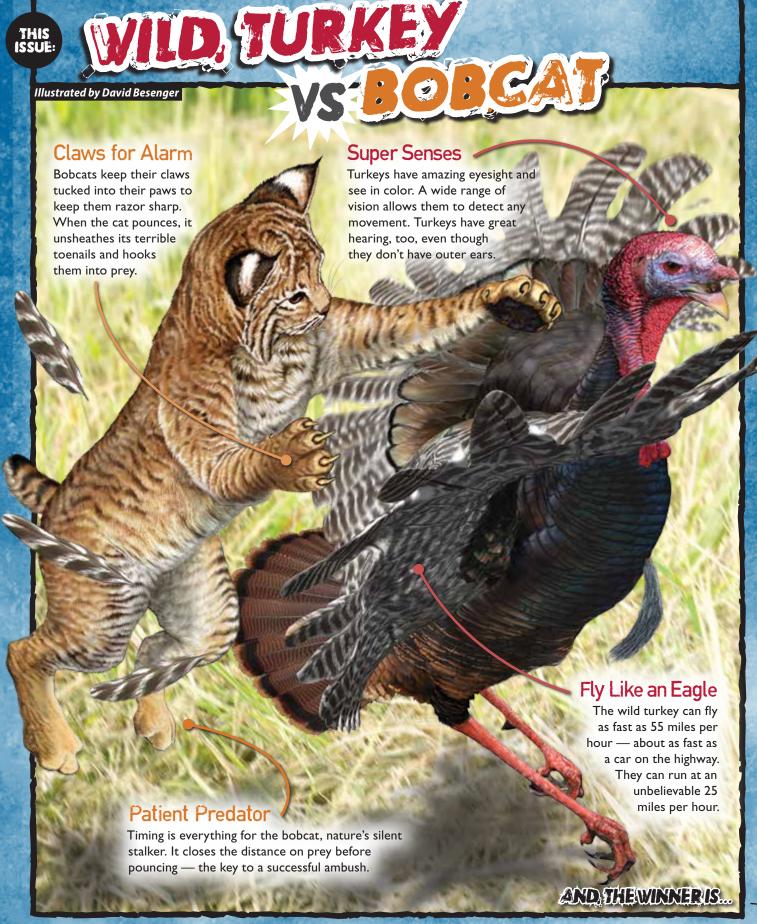


# Ruby-Throated Hummingbird

Missouri's smallest bird flaps its wings at blinding speeds — about 50 to 70 times each second. To keep their wings revved up, hummingbirds eat two to 14 times their



# THE STRUCCLE TO SURVIVE ISN'T ALVAYS A FAIR FIGHT



# To get a girlfriend, AMERICAN

YOUR GUIDE TO ALL THE IMUSUAL, UNIQUE, AND UNBELIEVABLE STUFF
THAT GOES ON IN NATURE

Wooncocks

spiral hundreds of feet up in the sky and then dive straight down. Moments before they go splat, the chubby daredevils pull up and land gracefully at nearly the same spot where they took off.

GREAT BLUE HEROMS like to raise their families close to other herons. This behavior leads to nest neighborhoods, called rookeries. that can contain 500 or more nests at a single site and dozens of nests crammed into individual trees.

Baby RIVER OTTERS can't swim. So when they're about 12 weeks old, mama otters start swimming

lessons. The pups aren't enthusiastic students — most are scared of water — so mom often has to drag them in to teach them how to float, paddle, and dive.



**GLASS** LIZARDS

slither, but make no mistake, they aren't snakes. The

legless lizards have eyelids and ear holes, two features snakes lack. And when attacked, a glass lizard can shed its long tail, a freaky feat no snake could pull off.



The feathered world is full of master builders, birds such as orioles who weave elaborate hanging nests. Then there are MOURNING DOVES, who often nest atop nothing more than a few flimsy twigs balanced carelessly in the fork of a branch.

ALLIGATOR GAR are the battleships of

without stopping.

the fish world. They're freakishly large, and they're covered in armor-like scales. The scales, which are made of a substance similar to tooth enamel, are so hard and sharp, Native Americans used them for arrowheads.

# Dye Some Wild-Colored Eggs issouri's wild birds lay eggs of nearly every color and pattern. Here's

how to dye chicken eggs to look like the ones laid by crows, cardinals, and robins.

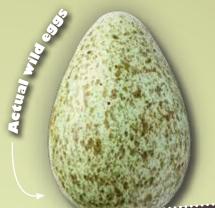
- White chicken eggs
- **Newspapers**
- Three coffee mugs
- **Measuring cup**
- **Tablespoon**
- White vinegar
- Kitchen tongs
- Red, yellow, blue, and green food coloring gel
- Two small plates
- **Old toothbrush**
- Paper towels

# HOW YOU PREPARE

Hard boil the eggs and let them cool to room temperature. While the eggs are cooling, cover your work surface with old newspapers.

Pour 1 cup of water into each coffee mug. Stir 1 tablespoon of white vinegar into each cup of water.

Follow the recipes on the next page to make each kind of egg.



# AMERICAN CROW

#### **Base Coat**

- 5 parts yellow gel
- 2 parts blue gel
- 1 part red gel

Stir the gel into the water and vinegar until it's completely dissolved (it helps if the water is hot).

Soak the egg for 45 seconds.

#### **Spots**

- 4 parts red gel
- 3 parts yellow gel
- 1 part blue gel

Mix the gel together on a small plate. Add a little water to make the mixture soupy.

Dab a toothbrush in the paint, and run your thumb over the bristles to sling paint spatters onto the egg.

# NORTHERN CARDINAL

#### **Base Coat**

- 6 parts red gel
- 2 parts yellow gel
- 1 part blue gel

Stir the gel into the water and vinegar until it's completely dissolved (it helps if the water is hot).

Soak the egg for 45 seconds.

### **Spots**

- 1 part blue gel
- 1 part red gel

Mix the gel together on a small plate. Add a little water to make the mixture soupy.

Dab a toothbrush in the paint, and run your thumb over the bristles to sling paint spatters onto the egg.

# AMERICAN ROBIN

#### **Base Coat**

- 6 parts blue gel
- 1 part green gel

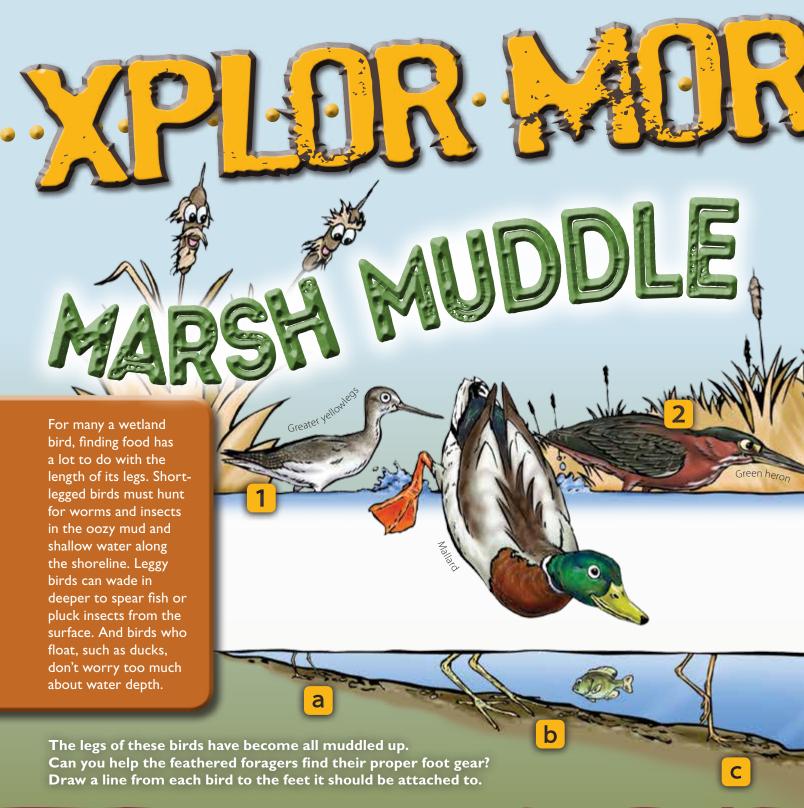
Stir the gel into the water and vinegar until it's completely dissolved (it helps if the water is hot).

Soak the egg for 3 minutes.

Use pea-sized amounts of food coloring gel. For example, if the base coat recipe says to use six parts blue and one part green, add six pea-sized squirts of blue gel and one pea-sized squirt of green gel to the water and vinegar mixture.

Approximate soaking times are provided, but check the eggs every 30 seconds and pull them out of the dye when they reach the right color.

Use kitchen tongs to pull eggs out of the dye and place them on clean paper towels to dry. Don't add spots to the eggs until the base coat dries completely.

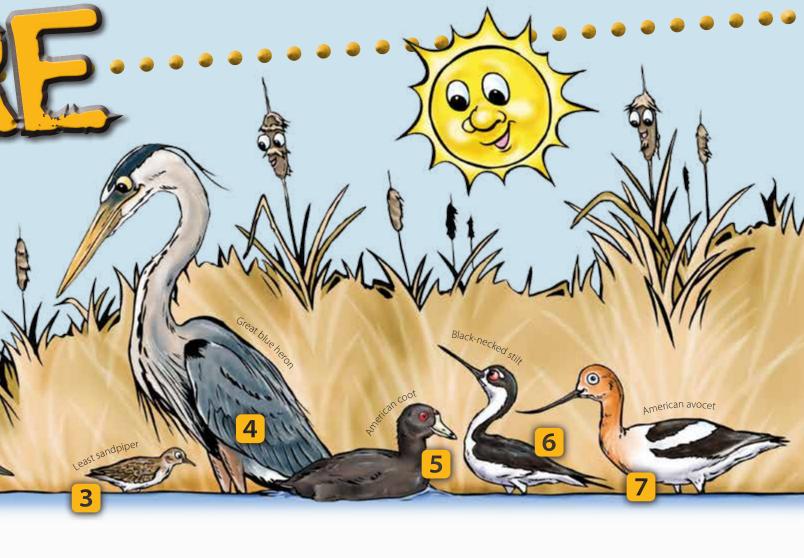


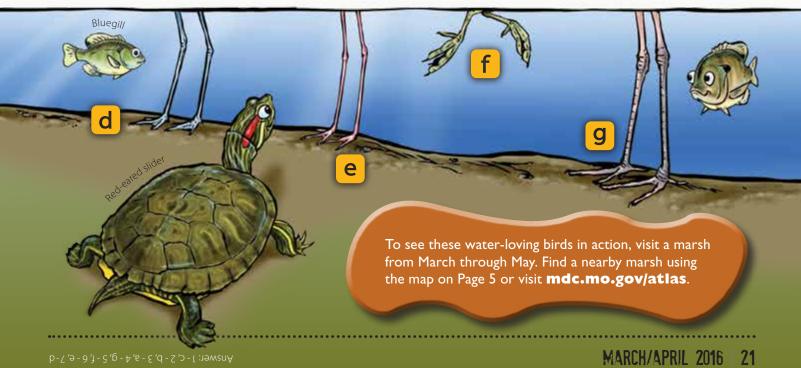
# WHAT IS 7

Known for its dazzling display of white blooms in early spring, the flowering dogwood is also Missouri's official state tree. It can be seen in open forests and yards throughout

the state. The flowering dogwood's dark red berries feed squirrels, white-tailed deer, wild turkeys, and about 30 other types of birds.







## SUBSCRIBE ONLINE

xplormo.org/node/2618

FREE TO MISSOURI HOUSEHOLDS



Hoppy spring! As spring gets green, watch for baby rabbits nested up or out grazing and playing. You might even see a hippety-hoppety cottontail doing a "binky" — jumping high in the air while twisting and spinning around. If you find a baby rabbit tucked away in the brush, leave it there. Mama rabbit is probably feeding nearby.